BRUHAT BENGALORU MAHANAGARA PALIKE

Name of Work.: Detailed Estimate for Improvements to roads and footpath maintenance in Ward No -11 Kuvempunagara.

H/A : P 3296 14th Finance Commission Works - Roads and footpath maintenance

Job Code : 011-19-000008	*Est. Cost Rs. 15.00 Lakhs*
Job Code : 011-19-000093	*Est. Cost Rs. 22.50 Lakhs*
	Total Cost Rs.37.50 Lakhs

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	Removing B.S. slab of Drain and stacking. (P.27/I.5.32 P W,P & IWTD,BENGALURU CIRCLE - SR 2018-19)	Sqm							
	Kuvempunagara- Cross Roads		1	7.50	2.00		15.00		
			2	9.00	2.00		36.00		
			4	6.00	2.00		48.00		
							99.00	104.94	**10389.00**
	Basic Rate	99.00							
	Add Area Weightage 6%	5.94							
	Total	104.94							
2	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (P.143/I.19.1PW, P & IWTD,BENGALURU CIRCLE - SR 2018-19)	Cum							
	Desilting of drain		1	7.50	0.75	0.90	5.06		
			2	9.00	0.75	0.90	12.15		
			4	6.00	0.75	0.90	16.20		
			1	20.00	0.60	0.60	7.20		
			2	30.00	0.60	0.60	21.60		
							62.21	137.80	**8573.00**
	Basic Rate	130.00							
	Add Area Weightage 6%	7.80							
	Total	137.80							
3	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.25/I.5.6 PW, P & IWTD,BENGALURU CIRCLE - SR 2018-19)	Cum							
	For SSM Drain - Flagging Corase		2	7.50	0.45	0.60	4.05		
			4	9.00	0.45	0.60	9.72		
			8	6.00	0.45	0.60	12.96		
			2	20.00	0.25	0.60	6.00		
			4	30.00	0.25	0.60	18.00		
							50.73	4871.76	**247144.00**
	Basic Rate	4596.00							
	Add Area Weightage 6%	275.76							
	Total	4871.76							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
4	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.13/I.4.3 PW, P & IWTD,BENGALURU CIRCLE - SR 2018-19)	Cum							
	Vent Portion		1	7.50	0.75	0.10	0.56		
			2	9.00	0.75	0.10	1.35		
			4	6.00	0.75	0.10	1.80		
			1	20.00	0.60	0.10	1.20		
			2	30.00	0.60	0.10	3.60		
							8.51	5408.12	**46023.00**
	Basic Rate	5102.00							
	Add Area Weightage 6%	306.12							
	Total	5408.12							
5	KSRB 4-1.6: Providing and laying in	Cum							
	Vent Portion		1	7.50	0.75	0.10	0.56		
			2	9.00	0.75	0.10	1.35		
			4	6.00	0.75	0.10	1.80		
			1	20.00	0.60	0.10	1.20		
			2	30.00	0.60	0.10	3.60		
			1	20.00	0.15	0.30	0.90		
	Gap Filling		2	20.00	0.45	0.10	1.80		
	For SSM Drain- Coping Concrete		4	9.00	0.45	0.10	1.62		
			8	6.00	0.45	0.10	2.16		
			2	20.00	0.25	0.10	1.00		
			4	30.00	0.25	0.10	3.00		
			2	124.00	0.25	0.10	6.20		
	Fixing Kerb Stone Portion						**25.19**	5747.32	**144775.00**
	Basic Rate	5422.00							
	Add Area Weightage 6%	325.32							
	Total	5747.32							
6	KSRB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.115/I.15.3PW, &IWTD,BENGALURU CIRCLE - SR 2018-19)	Sqm							
	For SSM Drain - Flagging Corase		2	6.00		0.60	7.20		
			4	9.00		0.60	21.60		
			8	6.00		0.60	28.80		
			2	20.00		0.60	24.00		
			4	30.00		0.60	72.00		
							153.60	150.52	**23120.00**
	Basic Rate	142.00							
	Add Area Weightage 6%	8.52							
	Total	150.52							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
7	KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @0.47cum, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (P.14/I.4.12 PW, P & IWTD,BENGALURU CIRCLE - SR 2018-19)	Cum							
	Covering Slab		1	7.50	2.10	0.30	4.73		
			2	9.00	2.10	0.30	11.34		
			4	6.00	2.10	0.30	15.12		
			1	20.00	1.00	0.10	2.00		
			2	30.00	1.00	0.10	6.00		
							39.19	6407.70	**251118.00**
	Basic Rate	6045.00							
	Add Area Weightage 6%	362.70							
	Total	6407.70							
8	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (P.18/I.4.46.2PW, P & IWTD,BENGALURU CIRCLE - SR 2018-19)	T		3.90				**3.90**	75223.96	**293373.00**
	Basic Rate	70966.00							
	Add Area Weightage 6%	4257.96							
	Total	75223.96							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	FOOT PATH PORTION								
9	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 metrers, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (P.140/I.18.47 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Cum							
	For Foot Path		2	30.00	1.50	0.20	18.00		
			2	30.00	1.20	0.20	14.40		
			2	30.00	1.10	0.20	13.20		
			2	20.00	1.35	0.20	10.80		
			2	14.00	1.20	0.20	6.72		
	For Road Work		1	124.00	5.00	0.20	124.00		
	Basic Rate	899.00					**187.12**	952.94	**178314.00**
	Add Area Weightage 6%	53.94							
	Total	952.94							
10	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1(P.265/I.37.51 PW, P & IWTD, BENGALURU CIRCLE -SR2018-19)	Cum							
	For Foot Path		2	30.00	1.50	0.20	18.00		
			2	30.00	1.20	0.20	14.40		
			2	30.00	1.10	0.20	13.20		
			2	20.00	1.35	0.20	10.80		
			2	14.00	1.20	0.20	6.72		
	For Road Work		1	124.00	5.00	0.20	124.00		
							187.12	263.94	**49388.00**
	Basic Rate	249.00							
	Add Area Weightage 6%	14.94							
	Total	263.94							
11	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.13/I.4.3 PW, P &IWTD,BENGALURU CIRCLE - SR 2018-19)	Cum							
	For Foot Path		2	30.00	1.50	0.10	9.00		
			2	30.00	1.20	0.10	7.20		
			2	30.00	1.10	0.10	6.60		
			2	20.00	1.35	0.10	5.40		
			2	14.00	1.20	0.10	3.36		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	For Road Work		1	124.00	5.00	0.15	93.00		
	Basic Rate	5102.00					**124.56**	5408.12	**673635.00**
	Add Area Weightage 6%	306.12							
	Total	5408.12							
12	KSRB 2.10: Providing sand cement bed with 5% cement with all leads for all materials and lift of 1.5 m. machine mixed, laid in layers of 15cms. thick and well compacted for foundation, including curing cost of materials labour and HOM complete as per specifications. specification. No. KBS (P.26 /I.5.17 PW, P & IWTD,BENGALURU CIRCLE - SR 2018-19)	Cum							
	For Foot Path		2	30.00	1.50	0.10	9.00		
			2	30.00	1.20	0.10	7.20		
			2	30.00	1.10	0.10	6.60		
			2	20.00	1.35	0.10	5.40		
			2	14.00	1.20	0.10	3.36		
			1	124.00	5.00	0.10	62.00		
							93.56	3177.88	**297322.00**
	For Road Work	2998.00							
	Basic Rate	179.88							
	Add Area Weightage 6%	3177.88							
	Total								
13	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification.(P.140 /14.62PW, PW, P & IWTD,BENGALURU CIRCLE - SR 2018-19)	Sqm							
	Foot Path -Tiles Portion		2	30.00	1.50		90.00		
			2	30.00	1.20		72.00		
			2	30.00	1.10		0.00		
			2	20.00	1.35		0.00		
			2	14.00	1.20		33.60		
							195.60	1305.92	**255438.00**
	Basic Rate	1232.00							
	Add Area Weightage 6%	73.92							
	Total	1305.92							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
14	KSRRB M600-6. Cement concrete pavement. Construction Un- reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051 .2.2 M30 at 450 Kg per cum, coarse and fine aggregate conforming to IS : 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grades as per drawing complete as specifications. (P.161/I.22.6.1 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Cum	1	124.00	5.00	0.15	**93.00**	5210.96	**484619.00**
	Flagging Concrete Work								
	Basic Rate	4916.00							
	Add Area Weightage 6%	294.96							
	Total	5210.96							

	Description of Item	Unit	No.							
	Vaccum de-Watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power, blade and disc etc,. with all lead and lift. (P.176/ I.22.7 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Sqm								
	Flagging Concrete Work		1	124.00	5.00		**620.00**	72.08	**44690.00**	
	Basic Rate	68.00								
	Add Area Weightage 6%	4.08								
	Total	72.08								
16	5.29(b) Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, inculing cost of all materials, labour, hire charges of machinary, loading, unloading, lead and lift, transportion etc.,complete. (P.27/I.5.30 PW, P & IWTD,BENGALURU CIRCLE - SR 2018-19)	No.					**248.00**			
			2	124.00			551.11			
	Basic Rate	408.00					Say **551**	432.48	**238296.00**	
	Add Area Weightage 6%	24.48								
	Total	432.48								
17	KSRB 15-19.1: Providing and applying ready mix priming coat over concrete/masonry/ asbestos cement sheet/plastered surfaces including preparing the surface after throughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. (P.124/I.15.80 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Sqm								
			2	124.00		0.30	**74.40**	39.22	**2918.00**	
	Basic Rate	37.00								
	Add Area Weightage 6%	2.22								
	Total	39.22								

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
18	KSRB 15-19.2: Providing and applying spray painting in two coats (excluding priming coat) over concrete/masonry/asbestos cement sheet/plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as perspecifications.(P.124/I.15.81 PW, P & IWTD, BENGALURU CIRCLE - SR 2018-19)	Sqm					74.40	90.10	6703.00
	Qty Vide Item No. 17								
	Basic Rate	85.00							
	Add Area Weightage 6%	5.10							
	Total	90.10							
19	Disposal of debries to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 20 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. 68.00 (P.140 PW, PW, P & IWTD,BENGALURU CIRCLE - SR 2018-19)	Cum					436.45	132.00	57611.00
	Qty Vide Item No.(2 +9 +10)								
	Lead Upto 20Kms	64.00							
	Loading & Unloading	68.00							
	Total	132.00							
						SUB - TOTAL AMOUNT RS.			3313449.00
20	G.S.T Charges (12%)								397613.88
21	PMC and Third Party Inspection Charges (1%)								33134.49
22	Miscellaneous,TenderPremium Charges and Unforeseen Charges	Ls							5802.63
						TOTAL AMOUNT RS.			3750000.00

(Rupees Thirty Seven Lakh Fifty Thousand Only)

CERTIFICATE :

1 The work spot has been inspected and found to be necessary.

2 The work spot comes under BBMP Limits.

3 The provisions made in the estimate are necessary and minimum.

4 The estimate is based on PW, P & IWTD, BENGALURU CIRCLE - SR 2018 -19.

Assistant Engineer
Project

Assistant Executive Engineer
Project Division
Yelhanka Zone
BBMP Bangalore

Executive Engineer
Project Division
Yelhankha Zone
BBMP Bangalore
12/2/19

Administrative Approval

Accorded For RS37-SD (alcheonly
Head of A/C 13296
CER NO : 237 Dt: 07.03.2019

TA CE (YNK)

Technical Sanction

Accorded For RS37-SD (alcheonly
Head of A/C 13296
CER NO : 320 Dt: 07.03.2019

TA CE (YNK)